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Azolyl Pyrimidines-Synthesis and Antimicrobial Activity

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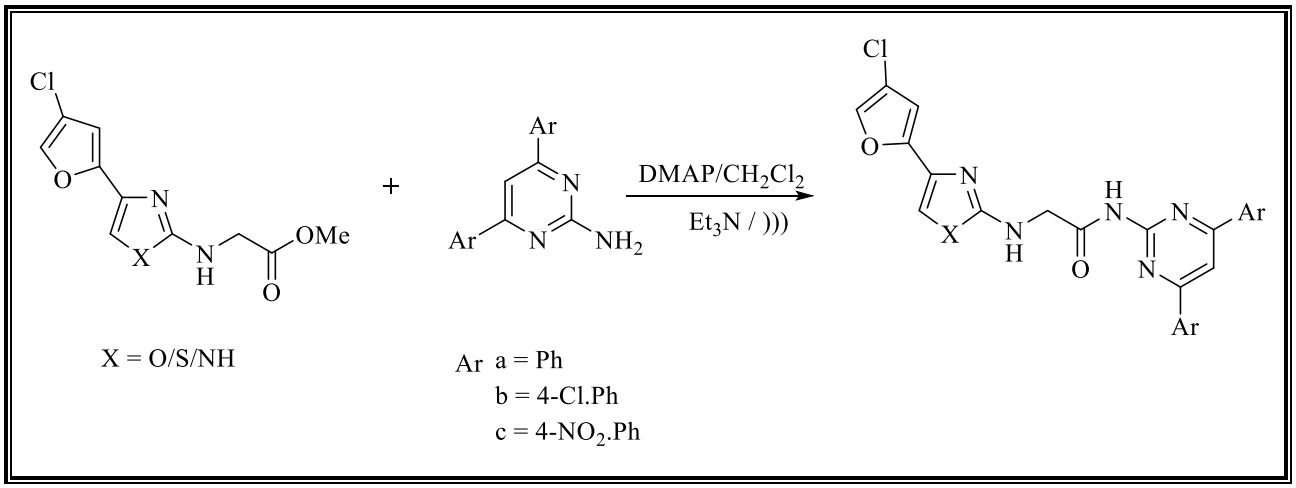

Abstract. Amide unit is a privileged structural motif and is a constituent of proteins, natural products and pharmaceuticals. Amongst different heterocyclic scaffolds, azoles and pyrimidines are the prominent entities in pharmaceutical arena. The biopotency of these heterocycles have triggered to synthesize a variety of heteroaromatics–azoles linked with pyridines by amino acetamide group. The target molecules-azolylaminoacetamidopyrimidines were prepared by the reaction of methyl azolylglycinate with pyrimidinyl-2-amine in the presence of DMAP and triethylamine in dichloromethane under ultrasonication. The lead molecules were evaluated for antimicrobial activity. The results on these aspects will be discussed.